



PS-31

System Power Supply

The Model PS-31 supplies 32 volts of regulated DC power to each of three intercom channels. It has short circuit and thermal overload protection, with automatic recovery when the fault is removed.

Features

Program Input

There is a program input connector on the rear panel. A channel assign switch on the front panel assigns the program to any of the three channels. A level control adjusts the program level to the intercom channel.

Status Indicators

There is an audible alarm and a red fault indicator for current overload indication on any of the three channels. An audible alert switch on the front panel turns the alarm on or off, but the fault indicator will continue to flash during current overload conditions. There is also a green status indicator for each channel. Each of these indicators will remain lit during normal operation, but will turn off during a channel current overload condition. Output current is automatically reduced during an overload and normal operation is restored when the overload is removed.

Input Power

The PS-31 is available in two versions: one for 115 VAC operation and one for 230 VAC operation. A power on/off switch is provided on the front panel.

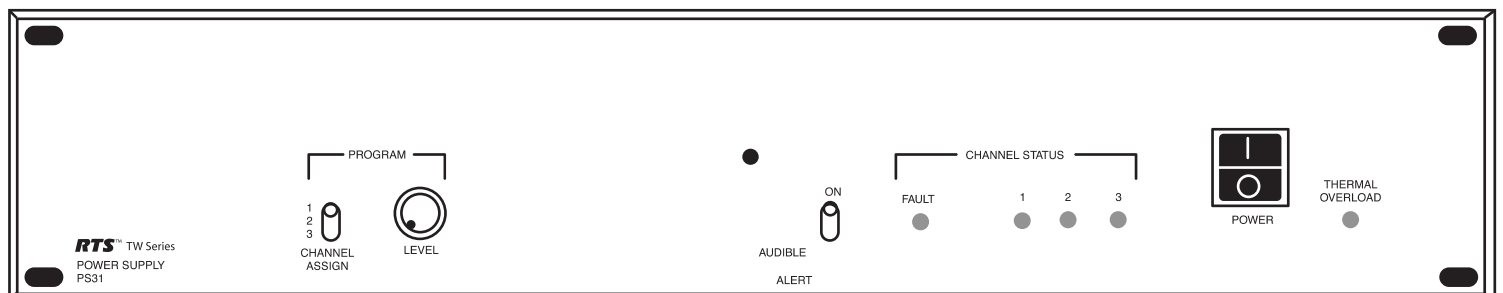
Intercom Channel Connections

Intercom channels are connected to the rear panel of the PS-31. A variety of connector pin-outs is provided to accommodate individual system requirements.

Impedance Selection

The PS-31 provides the required channel terminating impedance for each channel. A 200/400 Ω impedance select switch for each channel is located on the rear panel. These switches are set to 200 Ω for normal operation. The 400 Ω setting permits two PS-31's to be coupled to double the DC capacity of the system.

Line Drawing



PS-31 Specifications

Channels

Three

Connectors

Six XLR-3 type connectors (two channel)

Three XLR-4 type connectors (three channel)

One XLR-3 type connector (program input)

DC Output Voltage (each channel)

32 volts nominal

Line Terminating Impedance (each channel)

200 Ω switchable to 400 Ω when operating two supplies in parallel

Output Current Ratings

Max before fault indication: 1.5 amps

Sustained overload 50°C ambient: 20 amps

Max before foldBack limiting: 2.5 amps

Short circuit current: 0.5 amps

Startup current: 0.5 amps

Max Total Sustained Current (50°C ambient)

2.0 amps

Intercom Audio

Level: 2 volts pp nominal

Head Room: 6 dB minimum

Frequency Response: 75 Hz to 20 kHz (-3 dB) unloaded

Signal to Noise and Hum Ratio (Ref to 2 V pp)

-60 dB

Program Input

Balanced or unbalanced, transformer isolated, program assignable to channels 1-3

Program Input Sensitivity

28 dBm to +14 dBm (Ref. 600 Ω) for 2 volts pp on RTS line

Program Input Impedance

10,000 Ω

Program Frequency Response (-3dB)

100 Hz to 20 kHz input to RTS line.

Indicators

Channel Status: three green LEDs

Channel Fault: one red LED and one audible alarm

Thermal Overload: one red Neon type

Switches

One program channel assign switch; one audible alert on/off switch; one power switch; three 200/400 Ω impedance select switches

Temperature

0 to 50°C operating; 0 to 75°C storage

Power Requirements

Voltage: 100, 120, 200, or 40 VAC, 50/60 Hz versions available

Power: 100 volt-amps

Fuses

AC panel fuse: 100/120 volts-3A slow blow; 200, 240 volts - 1.5A slow blow

Internal DC fuses (each channel): 6A fast blow

Dimensions

3.5" (89 mm) high, 19" (483 mm) wide, 10.5" (267 mm) deep

Weight

14.5 pounds (6.6 kg)

Contact Information

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Ordering Information

PS-31

3 amp power supply for 30 stations

Catalog Number: 9000323300

This specifications information is preliminary and is subject to change without notification.

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